Patent Claims

1. Method for performing communication on a bus.
    structured network between master device (AV1) and
    slave devices (AV2, PC, LSij, DSij) using a bi-
    directional data stream (DSA) for secure
    communication and a unidirectional data stream (DSI)
    for real-time communication, **characterized** in that
    the unidirectional data stream (DSI) is used for a
    certain type of secure communication (CIV, CIB)
    between a master device (AV1) and at least one slave
    device (AV2, PC, LSij, DSij).

2. Method according to claim 1, **characterized** in that
    said certain type of secure communication (CIV, CIB)
    is a control command (CIV, CIB).

3. Method according to claim 1 or 2, **characterized** in
    that said certain type of secure communication (CIV,
    CIB) is sent in a repeated manner.

4. Method according to one of claims 1-3, **characterized**
    in that disturbance on the communication network is
    detected, its degree is determined, and, depending on
    said degree of disturbance, the use of unidirectional
    data stream for secure communication is reduced.

5. Method according to one of claims 1-4, **characterized**
    in that secure communication information (CIV, CIB)
    which is to be issued by a slave device (AV2, PC,
    LSij, DSij) to several other devices (AV1, AV2, PC,
    LSij, DSij) is issued as secure communication
    information (DSA) to a master device (AV1) only,
    which transmits it as said certain type of secure

communication information (CIV, CIB) via
unidirectional data stream (DSI) to the other devices
(AV2, PC, LSij, DSij).

5   6.   Method for a slave device for performing
         communication according to one of claims 1-5,
         characterized in that the slave device (AV2, PC,
         LSij, DSij), for retrieving said certain type of
         secure communication information (CIV, CIB), scans
10   and decodes both, bidirectional data streams (DSA)
         and unidirectional data streams (DSI) received from
         said bus.

    7.   Method for a master device for performing
15   communication according to one of claims 1-5,
         characterized in that the master device (AV1) sends
         certain type of secure information (CIV, CIB) to
         several slave devices (AV2, PC, DSij, LSij) on said
         bus using a unidirectional data stream (DSI).

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    8.   Network, slave device or master device for performing
         the method according to one of claims 1-5, 1-6, or 1-
         5 and 7, respectively.

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